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| SHORTENED STATUTORY PERIOD OF RESPONSE | | MAIL DATE | DELIVERY MODE | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.



Application No. Applicant(s) 10/565,793 LECHNER, WOLFGANG Office Action Summary **Examiner** Art Unit Christine D. Hopkins 3735 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply** A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **Status** 1) Responsive to communication(s) filed on <u>30 October 2006</u>. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) <u>1-24</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-3,5-15,17,18 and 22-24 is/are rejected. 7) Claim(s) 4,16 and 19-21 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 4) Interview Summary (PTO-413) 1) Notice of References Cited (PTO-892) Paper No(s)/Mail Date. _ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6) Other: U.S. Patent and Trademark Office

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DETAILED ACTION

1. This Office Action is responsive to the Amendment filed 30 October 2006.

Claims 1-24 are now pending. The Examiner acknowledges the amendments to claims 1-5, 7, 9-11, 13-19 and 22.

Claim Objections

2. The claims include reference characters which are enclosed within parentheses. The use of reference characters is considered as having no effect on the scope of the claims. Since the reference characters are not afforded patentable weight, the reference characters enclosed within parentheses apparently should be deleted from the claims. Correction is requested.

At line 3 of claim 2, "stomamach" should read --stomach--; and at line 4, insert -- first-- before "chamber."

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3, 5-7, 9-12, 14-15, 17-18 and 23-24 are rejected under 35
 U.S.C. 102(b) as being anticipated by Baro et al. (U.S. Patent No. 4,399,809). Baro et al. discloses an apparatus to be applied to a stoma within the body, comprised of

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chambers to be inflated or deflated with a fluid in response to pressure monitored by a sensor. Regarding claims 1 and 3, Baro teaches a gastric band 1 having a non-extensible back such that it cannot expand outward upon inflation of the chambers (col. 4, lines 54-57). The band is arranged in such a way as to encircle the intestine near the stoma (col. 4, lines 9-13). The band may have two chambers 8, 9 that communicate with each other via a passage 3 for the introduction and removal of fluid used to inflate and deflate the chambers (col. 4, lines 27-33). The chambers are located beside each other whereby the first chamber may be located aborally (see Fig. 4).

With reference to the improvements of claim 2 and claim 5, a second chamber 9 is interpreted as a "sensor" for the detection of pressure since it responds by deflation upon a pressure increase from the stomach in relation to the consumption of food. The first chamber 8 is connected to the second chamber 9 via a passage 3 leading to a conduit 4 which is connected to a pump having a "reservoir" that supports fluid which is supplied to or removed from the chambers (col. 3, lines 49-58 and Fig. 4). Furthermore, the first and second chambers are arranged one above the other with respect to the stomach (see Figs. 1 and 4). Referring to claim 6, a "layer" is provided between the chambers 8 and 9 as evident in Fig 4.

With reference to claims 7 and 9, a mechanical, manually activated pump is provided for pumping a fluid into the chambers. Since a passage 3 exists between the chambers, it is thus capable of distributing fluid from the second chamber into the first chamber and vice versa (col. 3, lines 49-58 and Fig. 4). Regarding claim 15, when a given pressure has been detected by sensing device 12, decompression of the band is

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advised by removal of fluid from the first chamber of the band via the pump. Prior to eating and an increase in pressure, the band is in an inflated state, which is a result of supplying fluid from a "reservoir" of a pump to the first chamber. While fluid is supplied to both chambers, the language of claim 15 only requires supplying liquid to or removing liquid from the first chamber.

Regarding claims 10-12 and 14, Baro further provides a detection device **12**, that senses when a given pressure has been reached in the intestine, such a pressure prevailing from eating and subsequently swallowing a particular amount.

Referring to claims 17 and 18, a conduit **4** is interpreted as an air chamber arranged between a reservoir supplying fluid through the pump and the first chamber **8** (see Fig. 4). A pump is provided between the first chamber **8** and a reservoir that supplies fluid to the band.

In view of claims 23 and 24, a "further liquid-filled chamber" is provided in the band, interpreted to be a chamber which is connected to a conduit or port **20** and extends to a pump for introduction and removal of fluid from the chambers (col. 3, lines 49-58 and Figs. 1 and 7).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baro et al. (U.S. Patent No. 4,399,809) in view of Imran et al. (U.S. Patent No. 7,037,343). Baro discloses the invention as claimed, see rejection supra; however Baro fails to teach a pump that is electrically driven. Imran teaches an implantable stomach prosthesis, composed of expandable members, for controlling passage of food from the stomach to the small intestine. With respect to claim 8, Imran discloses a DC powered pump for selectively inflating and deflating expandable members (col. 6, lines 40-50), or the equivalent of inflatable chambers as taught by Baro, from a reservoir. Therefore, at the time of the invention it would have been obvious to one having ordinary skill in the art to have utilized an electric pump as suggested by Imran to introduce fluids to, and also remove them from, an inflatable chamber similar to that of Baro, acting to constrict a body lumen.

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7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baro et al. (U.S. Patent No. 4,399,809) in view of Forsell (U.S. Pub. No. 2001/0011543). Baro discloses the invention as claimed, see rejection supra; however Baro fails to teach a pressure sensor provided in a chamber of an adjustable band. Forsell discloses an adjustable restriction member for modifying the opening of a stomach in treating obesity. Regarding claim 13, Forsell teaches a pressure sensor 23 mounted inside a restriction member 12 to detect pressure prevailing in the gastric wall of a patient [0061]. Sensor 23 detects and communicates such a pressure to a control unit 22 via electrical connections that cause a pump to introduce or remove fluid into a cavity and thus expand or decrease the restriction member [0064]. Therefore, at the time of the

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invention it would have been obvious to one having ordinary skill in the art to have provided in an inflatable member of a restriction device as taught by Forsell, with a sensor for detecting pressure in a restriction band as disclosed by Baro, for communicating an accurate pressure exerted on the wall of the stomach as a result of food intake.

8. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baro et al. (U.S. Patent No. 4,399,809) in view of Chen et al. (U.S. Patent No. 5,690,691). Baro discloses the invention as claimed, see rejection supra; however Baro fails to teach a device emitting an electrical pulse for stimulating the stomach. Regarding claim 22, Chen discloses the use of electrodes for controlling the peristaltic wave and therefore stimulating the flow of food through the stomach (col. 3, lines 34-45 and col. 6, lines 43-67-col. 7, lines 1-4). Therefore, at the time of the invention it would have been obvious to one having ordinary skill in the art to have incorporated electrodes as suggested by Chen to a chamber sensing pressure of the stomach as taught by Baro such that electrical pulses emitted by the electrodes act to stimulate the stomach during food intake by invoking satiety and stimulating the muscles of the stomach to constrict and further decrease the stoma opening.

Allowable Subject Matter

9. Claims 4, 16 and 19-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter: regarding claim 4, while the prior art of record teaches a second chamber, it fails to fairly teach or suggest dividing one of the chambers which will serve to introduce a fluid into an adjustable band.

In view of claim 16, the prior art fails to teach or suggest connecting two chambers with an auxillary chamber for introducing fluid to a band whereby fluid flow is restricted to such chambers by a valve. The prior art of record teaches flow between such chambers, however the flow is allowed by a passage that does not restrict movement from one chamber to the other since both chambers of the prior art serve to simultaneously adjust the restriction of the opening.

Regarding claim 19, the prior art of record teaches a pump for facilitating liquid exchange from a reservoir to a chamber, however it fails to teach or suggest a common partition wall with micropores arranged between the chambers. Furthermore, regarding claims 20 and 21, the prior art of record does not teach or suggest a backflow channel to be arranged between the chambers since the chambers of the prior art allow flow freely between the individual chambers and do not act to limit flow via a backflow channel equipped with a valve.

Response to Arguments

10. Applicant's arguments filed October 30, 2006 with respect to the rejection of claims 5 and 6 under 35 U.S.C 101 have been fully considered and are persuasive. The rejection of claims 5 and 6 has been withdrawn.

- 11. Applicant's arguments filed October 30, 2006 with respect to the rejection of claims 1-24 under 35 U.S.C 112, second paragraph, have been fully considered and are persuasive. The rejection of claims 1-24 has been withdrawn.
- 12. Applicant's arguments filed October 30, 2006 with respect to the rejection of claims 1-24 under 35 U.S.C. 102(e) citing Imran et al. ('343) are moot in view of the new grounds of rejection are citing Baro ('809), which teaches an apparatus to be applied to a stoma within the body that is comprised of chambers to be inflated or deflated with a fluid in response to pressure monitored by a sensor. Applicant's significant amendments to rejections under 35 U.S.C. 112, second paragraph warrant the new grounds of rejection in view of the substantially indefinite and unclear nature of the claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine D. Hopkins whose telephone number is (571) 272-9058. The examiner can normally be reached on Monday-Friday, 7 a.m.-3:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor, II can be reached on (571) 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Christine D Hopkins Examiner Art Unit 3735 Charles A. Marmor, II Supervisory Patent Examiner Art Unit 3735

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